

<110> Coleman, Timothy  
Mansfield, Brian

<120> Scaffold Fusion Polypeptides, Composition for Making the Same,  
and Methods of Using the Same.

<130> PF537

<150> 60/265,782

<151> 2001-01-31

<150> 60/265,858

<151> 2001-01-31

<160> 32

<210> 1

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1

Glu Phe Leu Ile Val Ile Lys Ser

1

5

<210> 2

<211> 27

<212> PRT

<213> Homo sapiens

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<222> (1)..(1)

<223> Xaa equals either the naturally occurring L-amino acid Phe or Tyr

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<222> (2)..(2)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (4)..(7)

<223> Xaa equals any of the naturally occurring L-amino acids, one or  
two residues may be missing

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<222> (9)..(9)

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<222> (10)..(10)

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 <222> (22)..(26)  
 <223> Xaa equals any of the naturally occurring L-amino acids, one or two residues may be missing.

<400> 2  
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
   1                  5                  10                  15  
 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His  
   20                  25

<210> 3  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (5)..(5)  
 <223> Xaa equals any number of any of the the naturally occurring L-amino acids

<400> 3  
 Cys Pro Glu Cys Xaa His Gln Arg Thr His  
           1                          5                          10

<210> 4  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

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 <223> Xaa equals either the naturally occurring L-amino acid Phe or Tyr

<220>  
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 <222> (2)..(2)  
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<220>  
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 <222> (4)..(7)  
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<400> 4  
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys  
           1                          5

<210> 5  
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 <213> Homo sapiens

<220>  
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 <222> (2)..(2)  
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<400> 5  
 His Xaa Xaa Xaa Xaa Xaa His  
           1                          5

<210> 6  
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 <212> PRT  
 <213> Homo sapiens

<400> 6

Tyr Lys Cys Gly Leu Cys  
1 5

<210> 7  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 7  
His Gln Arg Val His  
1 5

<210> 8  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 8  
Thr Gly Glu Lys Pro Tyr Lys  
1 5

<210> 9  
<211> 209  
<212> PRT  
<213> Homo sapiens

<400> 9  
Met Asp Tyr Val Ser Ser Tyr Asp Asn Tyr Tyr Thr Ser Cys Lys Asn  
1 5 10 15

Val Lys Ala Ala Arg Tyr Ser Val Gly Val Gly Asn Met Val Asn Cys  
20 25 30

Lys Arg Lys Ser Met Thr Asp Tyr Asn Ala Ser Asp Thr Val Trp Ala  
35 40 45

His Tyr Ala Ala Ala Trp Asp Gly Asn Thr Met Cys Thr Gly Tyr Gly  
50 55 60

Ser Gly Thr Asp Arg Tyr Ala Val Val His Ala Val Ala Lys Ala Arg  
65 70 75 80

Thr Val Thr Gly Val Val Thr Ser Val Thr Trp Val Val Ala Val Ala  
85 90 95

Ser Gly Thr Arg Ser Lys Gly His Tyr Thr Cys Ser Ser His Tyr Ser  
100 105 110

Tyr Trp Lys Asn Thr Lys Val Gly Val Val Met Val Cys Tyr Ser Gly  
115 120 125

Lys Thr Arg Cys Arg Asn Lys Lys Arg His Arg Ala Val Arg Thr Met  
130 135 140

Val Tyr Trp Ala Tyr Asn Val Asn Thr Gly Asn Asn Cys Ser Ser Ser  
145 150 155 160

Asn Arg Asp Ala Met Val Thr Thr Gly Met Thr His Cys Cys Asn Tyr  
165 170 175

Ala Val Gly Lys Arg Asn Tyr Val Lys His Ala Lys Arg Cys Lys Cys  
180 185 190

Cys Ser Ala Arg Ala Ser Ser Val Tyr Thr Arg Ser Thr Gly Ser Val  
195 200 205

Gly

<210> 10

<211> 138

<212> PRT

<213> Homo sapiens

<400> 10

Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr  
1 5 10 15

Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Tyr Lys  
20 25 30

Cys Gly Leu Cys Ala Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys  
35 40 45

Gln His Gln Arg Val His Gly His His His His Ser Tyr Lys Cys Gly  
50 55 60

Leu Cys Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser  
65 70 75 80

His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu  
85 90 95

Lys Ile His Gln Arg Val His Gly Gly Gly Gly Ser Tyr Lys Cys Gly  
100 105 110

Leu Cys Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser Asn Arg  
115 120 125

Leu Asp Gly His Gln Arg Val His Ala Ala  
130 135

<210> 11

<211> 30

<212> PRT

<213> Homo sapiens

<400> 11

Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr  
1 5 10 15

Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala  
20 25 30

<210> 12  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 12  
 Ala Ala Ala Gln Trp Asp Phe Gly Asn Thr Met Cys Gln  
 1 5 10

<210> 13  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 13  
 Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr Cys Ser Ser His Phe  
 1 5 10 15

Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys Ile  
 20 25 30

<210> 14  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 14  
 Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser Asn Arg Leu Asp  
 1 5 10 15

Gly

<210> 15  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 15  
 Gly His His His His Ser  
 1 5

<210> 16  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 16  
 Gly Gly Gly Gly Ser  
 1 5

<210> 17  
 <211> 72  
 <212> DNA  
 <213> Artificial sequence

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<223> Synthetic oligonucleotides used to join DNA fragments

<400> 17

gatctgtaat acgactcact atagggcacc atatggacta ccaggtttct tctccgatct 60  
acgacatcaa ct 72

<210> 18

<211> 72

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotides used to join DNA fragments

<400> 18

gcagcgatct gtttaacggt gattttctgg cacgggtcag aggtgtagta gttgatgtcg 60  
tagatcggag aa 72

<210> 19

<211> 72

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotides used to join DNA fragments

<400> 19

aatcaacggt aaacagatcg ctgcttatac atgcgggtctg tgcgctgctg ctcagtggga 60  
cttcggtaac ac 72

<210> 20

<211> 79

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotides used to join DNA fragments

<400> 20

ggatccggat ccttattagt ggtgggtggt accgtgaaca cgctgggtgct ggcacatggt 60  
gttaccgaag tccactga 79

<210> 21

<211> 82

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotides used to join DNA fragments

<400> 21

gttcacgggt accaccacca ctcttataaa tgcgggtctgt gcacccgttc tcagaaagaa 60  
ggtctgcact acacctgctc tt 82

<210> 22

<211> 82

<212> DNA

<213> Artificial sequence

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<400> 22

ggtggatttt cagggctctgg aagtttttcc agaactggta ctgagagtac gggaagtgag 60  
aagagcaggt gtagtcaga cc 82

<210> 23

<211> 82

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotides used to join DNA fragments

<400> 23

ttccagaccc tgaaaatcca ccagcgtggt caccatcacc attcttataa atgcggtctg 60  
tgccaggaat tcttcggtct ga 82

<210> 24

<211> 93

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotides used to join DNA fragments

<400> 24

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agagcagttg ttcagaccga agaattcctg gca 93

<210> 25

<211> 33

<212> DNA

<213> Artificial sequence

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<400> 25

catatgcata tggactacca ggtttcttct ccg 33

<210> 26

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotides used to join DNA fragments

<400> 26

gagtgggtgg ggtgaccgtg aac 23

<210> 27

<211> 42



<212> DNA  
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<220>  
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<400> 27  
ggatccggat ccataaatat ggactaccag gtttcttctc cg 42

<210> 28  
<211> 99  
<212> DNA  
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<400> 28  
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actgcccttg gatcgatgga ctaccaggtt tcttctccg 99

<210> 29  
<211> 48  
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<400> 29  
tctagatcta gattattaag cagcgtgaac acgctggtga ccgtccag 48

<210> 30  
<211> 41  
<212> DNA  
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<220>  
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<400> 30  
ggtaccggta ccttattaag cagcgtgaac acgctggtga c 41

<210> 31  
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<213> Homo sapiens

<400> 31  
Met Lys Val Ser Val Ala Ala Leu Ser Cys Leu Met Leu Val Thr Ala  
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Leu Gly Ser Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn  
20 25 30  
Tyr Tyr Thr Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala  
35 40 45

Ala Tyr Lys Cys Gly Leu Cys Ala Ala Ala Gln Trp Asp Phe Gly Asn  
50 55 60

Thr Met Cys Gln His Gln Arg Val His Gly His His His His Ser Tyr  
65 70 75 80

Lys Cys Gly Leu Cys Thr Arg Ser Gln Lys Glu Gly Leu His Tyr Thr  
85 90 95

Cys Ser Ser His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe  
100 105 110

Gln Thr Leu Lys Ile His Gln Arg Val His Gly Gly Gly Gly Ser Tyr  
115 120 125

Lys Cys Gly Leu Cys Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser  
130 135 140

Ser Asn Arg Leu Asp Gly His Gln Arg Val His Ala Ala  
145 150 155

<210> 32

<211> 19

<212> PRT

<213> Homo sapiens

<400> 32

Met Lys Val Ser Val Ala Ala Leu Ser Cys Leu Met Leu Val Thr Ala  
1 5 10 15

Leu Gly Ser